



UNITED STATES PATENT AND TRADEMARK OFFICE

117

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/830,135	04/23/2004	Francesc Ros	200209941-2	7441

22879 7590 08/08/2006

HEWLETT PACKARD COMPANY
P O BOX 272400, 3404 E. HARMONY ROAD
INTELLECTUAL PROPERTY ADMINISTRATION
FORT COLLINS, CO 80527-2400

EXAMINER

GOLDBERG, BRIAN J

ART UNIT	PAPER NUMBER
----------	--------------

2861

DATE MAILED: 08/08/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/830,135	Applicant(s) ROS ET AL.	
	Examiner Brian Goldberg	Art Unit 2861	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 23 April 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-17 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-5 and 7-17 is/are rejected.
- 7) ☒ Claim(s) 6 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 23 April 2004 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Drawings

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the “support element...arranged to rotate between the first and second positions” must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as “amended.” If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either “Replacement Sheet” or “New Sheet” pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Objections

1. Claims 4-7, and 14-16 are objected to because of the following informalities:

Art Unit: 2861

2. Regarding claim 4, "to interact with corresponding feature of a reservoir" in the second line of the claim is not proper. A suggested change would be "to interact with one or more corresponding features of a reservoir." Appropriate correction is required.

3. Regarding claims 5 and 6, "the predetermined position" referred to in the second line of claim 5 is not clear because it is not apparent to which predetermined position the claim refers (i.e. relative to what? the adaptor or the supporting element?).

Appropriate correction is required.

4. Regarding claim 7, the inclusion of "and/or" in the second line of the claim is not proper. Appropriate correction is required.

5. Regarding claim 14, the support element cannot move linearly between first and second positions and rotate between first and second positions since these contradict. Further, as mentioned above, the drawings do not support this claim. Appropriate correction is required.

6. Regarding claim 15, "comprising ink reservoir adaptor" in the first line of the claim is not proper. A suggested change would be to insert "an" before "ink". Appropriate correction is required.

7. Regarding claim 16, the claim recites the limitation "the force" in the third line of the claim. There is insufficient antecedent basis for this limitation in the claim.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

9. Claims 1-4, 8, and 11-17 are rejected under 35 U.S.C. 102(b) as being anticipated by Norton et al. (US 6328415).

10. Regarding claim 1, Norton et al. disclose “An ink reservoir adaptor (15) for use in a hardcopy device, comprising a reservoir supporting element (20) movable relative to the adaptor between first and second positions (col 3 ln 64-67, Fig 5a,b), the supporting element being arranged to receive a reservoir when in the first position, and being further arranged, when moved to the second position, to bring an interface associated with the reservoir into a predetermined position relative to the adaptor (col 7 ln 42-53, col 4 ln 1-25, Fig 1a-c, Fig 5a,b).

11. Regarding claim 2, Norton et al. disclose “the supporting element is arranged to receive a reservoir such that an interface associated with the reservoir is located in a predetermined position relative to the supporting element (col 4 ln 48-54).”

12. Regarding claim 3, Norton et al. disclose “the supporting element is arranged to support any type of a set of reservoir types, each reservoir type having a different volume (col 4 ln 56 – col 5 ln 4, col 8 ln 60 – col 9 ln 1).”

13. Regarding claim 4, Norton et al. disclose “the supporting element comprises one or more features, arranged in use to interact with corresponding feature of a reservoir, to maintain the reservoir substantially stationary relative to the supporting element (col 4 ln 48-56).”

Art Unit: 2861

14. Regarding claim 8, Norton et al. disclose "at least one restraint (18,19) adapted in use to oppose the expansion of the reservoir (22)."

15. Regarding claim 11, Norton et al. disclose "the support element is arranged to move substantially linearly between the first and second positions (see Fig 5a,b)."

16. Regarding claim 12, Norton et al. disclose "the support element is arranged to slide between the first and second positions on a support surface (79) associated with the adaptor (see Fig 5b)."

17. Regarding claim 13, Norton et al. disclose "the support element is arranged to be moved manually between the first and second positions (see Fig 5a,b, latch 53, and door 30 requiring movement by manual force)."

18. Regarding claim 14, Norton et al. disclose "the support element is arranged to rotate between the first and second positions (see Fig 1a-c)."

19. Regarding claim 15, Norton et al. disclose "A hardcopy device (10) comprising ink reservoir adaptor (15), the adaptor comprising a reservoir supporting element (20) movable relative to the adaptor between first and second positions (col 3 ln 64-67, Fig 5a.b), the supporting element being arranged in the first position to receive a reservoir such that an interface associated with the reservoir is located in a predetermined position relative to the supporting element, the supporting element being further arranged, when moved to the second position, to connect the interface with a corresponding interface associated with the device (col 7 ln 42-53, col 4 ln 1-25, 48-54, Fig 1a-c, Fig 5a,b, Fig 7a,b)."

Art Unit: 2861

20. Regarding claim 16, Norton et al. disclose "the interface associated with the device is resiliently mounted relative to the interface associated with the reservoir, so as to regulate the force between the two interfaces when the supporting element is located in the second position (see Fig 7a,b, col 8 ln 40-59)."

21. Regarding claim 17, Norton et al. disclose "an inkjet device according to claim 15 (see Fig 2)."

Claim Rejections - 35 USC § 103

22. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

23. Claims 5 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Norton et al. in view of Miyazawa et al. (US 6955422)

24. Regarding claims 5 and 7, Norton et al. disclose the claimed invention as set forth above regarding claim 4. Thus Norton et al. meet the claimed invention except "the one or more features comprise a first set located adjacent to the predetermined position of the reservoir interface, the first set of features being arranged to locate a plurality of reservoir types" and "the one or more features comprise bosses and/or recesses."

25. Miyazawa et al. teach "the one or more features comprise a first set located adjacent to the predetermined position of the reservoir interface, the first set of features being arranged to locate a plurality of reservoir types (107, 107a of Fig 5, 5a of Fig 2b, col 4 ln 27-29)" and "the one or more features comprise bosses and/or recesses (107,

107a of Fig 5, 5a of Fig 2b, col 4 ln 27-29)." It would have been obvious to one of ordinary skill in the art at the time of the applicant's invention to include the features taught by Miyazawa et al. in the adaptor of Norton et al. One would have been motivated to so modify Norton et al. for the benefit of allowing the reservoir to click into place and be securely mounted to the adaptor, as stated by Miyazawa et al.

26. Claims 9 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Norton et al. in view of Glass (US 6231160).

27. Regarding claim 9, Norton et al. disclose the claimed invention as set forth above regarding claim 8. Thus Norton et al. meet the claimed invention except "the at least one restraint is located such that it is adjacent a reservoir when the support element is located in the second position but not the first position."

28. Glass teaches "the at least one restraint (150, 152) is located such that it is adjacent a reservoir when the support element is located in the second position but not the first position (see 150,152 in Fig 2 (second position) and Fig 4 (first position))." It would have been obvious to one of ordinary skill in the art at the time of the applicant's invention to arrange the restraint to be adjacent the reservoir in the second position but not the first. One would have been motivated to so modify Norton et al. for the benefit of holding the printhead cartridges in place when in the second position for printing, but not the first to allow for removal, as stated by Glass.

29. Regarding claim 10, Norton et al. further disclose "the at least one restraint comprises first and second surface arranged to be located on opposing sides of the reservoir (the two sidewalls of 19 of 18 and the front wall of 19)."

Art Unit: 2861

30. Claims 9 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Norton et al. in view of Masatoshi (JP 200272097).

31. Regarding claim 9, Norton et al. disclose the claimed invention as set forth above regarding claim 8. Thus Norton et al. meet the claimed invention except "the at least one restraint is located such that it is adjacent a reservoir when the support element is located in the second position but not the first position."

32. Masatoshi teaches "the at least one restraint (sides of 12) is located such that it is adjacent a reservoir when the support element is located in the second position (see Fig 4) but not the first position (see Fig 3)." It would have been obvious to one of ordinary skill in the art at the time of the applicant's invention to arrange the restraint to be adjacent the reservoir in the second position but not the first. One would have been motivated to so modify Norton et al. for the benefit of holding the printhead cartridges in place when in the second position for printing, but not the first to allow for removal, as stated by Glass.


33. Regarding claim 10, Norton et al. further disclose "the at least one restraint comprises first and second surface arranged to be located on opposing sides of the reservoir (the two sidewalls of 19 of 18 and the front wall of 19)." Masatoshi also further discloses "the at least one restraint comprises first and second surface arranged to be located on opposing sides of the reservoir (see sides of 12)."


34. Claim 6 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian Goldberg whose telephone number is 571-272-2728. The examiner can normally be reached on Monday through Friday, 9AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vip Patel can be reached on 571-272-2458. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Brian Goldberg 
AU 2861
August 3, 2006


Vip Patel
Supervisory Examiner
AU 2861